Appendix table 1. Quality of included trials by adjusted Jadad scale

No	Study ID	Clinical trial code	Adequate sequence generation	Allocation concealment	Blinding of participants and personnel	Dropout addressed	ITT
1	Ahren B, 2013 ^[1]	NCT00712673	Adequate	Adequate	Adequate, DB	Adequate	Y
2	Ahren B, 2014 ^[2]	NCT00838903	Adequate	Adequate	Adequate, DB	Adequate	Y
3	Apovian CM, 2010 ^[3]	NCT00375492	Adequate	Adequate	Adequate, DB	Adequate	Y
4	Barnett AH, 2007 ^[4]	NCT00099619	Adequate	Adequate	Open Label	Adequate	Y
5	Bergenstal R, 2009 ^[5]	NCT00097877	Adequate	Adequate	Open Label	Adequate	Y
6	Bergenstal RM, 2010 ^[6]	NCT00637273	Adequate	Adequate	Adequate, DB	Adequate	Y
7	Bergenstal RM, 2012 ^[7]	NCT00754988	Adequate	Unclear	Unclear, DB	Adequate	N
8	Blevins T, 2011 ^[8]	NCT00877890	Adequate	Adequate	Open Label	Adequate	Y
9	Bolli G, 2013 ^[9]	NCT00763451	Adequate	Unclear	Unclear, DB	Unclear	N
10	Bunck MC, 2009 ^[10]	NCT00097500	Adequate	Unclear	Open Label	Adequate	Y
11	Buse JB, 2004 ^[11]	NCT00039026	Adequate	Unclear	Adequate, DB	Adequate	Y
12	Buse JB, 2009 ^[12]	NCT00518882	Unclear	Adequate	Open Label	Adequate	Y
13	Buse JB, 2011 ^[13]	NCT00765817	Adequate	Adequate	Adequate, DB	Adequate	Y
14	Buse JB, 2013 ^[14]	NCT01029886	Adequate	Adequate	Open Label	Adequate	Y
15	Charbonnel B, 2013 ^[15]	NCT01296412	Adequate	Unclear	Open Label	Adequate	Y
16	Davies M, 2013 ^[16]	NCT01003184	Adequate	Adequate	Open Label	Adequate	Y
17	Davies MJ, 2009 ^[17]	NCT00360334	Adequate	Unclear	Open Label	Adequate	Y
18	Davis SN, 2007 ^[18]	NCT00099333	Unclear	Unclear	Open Label	Adequate	Y
19	DeFronzo RA, 2005 ^[19]	NCT00039013	Unclear	Unclear	Adequate, TB	Adequate	Y
20	DeFronzo RA, 2010 ^[20]	NCT00135330	Adequate	Unclear	Open Label	Adequate	Y

21	Derosa G, 2012 ^[21]	NR	Adequate	Adequate	Adequate, DB	Adequate	Y
22	Diamant M, 2012 ^[22]	NCT00641056	Adequate	Adequate	Open Label	Adequate	Y
23	Drucker DJ, 2008 ^[23]	NCT00308139	Unclear	Unclear	Open Label	Adequate	Y
24	Fonseca VA, 2012 ^[24]	NCT00688701	Adequate	Adequate	Adequate, DB	Adequate	Y
25	Gallwitz B, 2011 ^[25]	NCT00434954	Adequate	Unclear	Open Label	Unclear	Y
26	Gallwitz B, 2012 ^[26]	NCT00359762	Adequate	Unclear	Open Label	Unadequate	Y
27	Gao Y, 2009 ^[27]	NCT00324363	Adequate	Adequate	Adequate, DB	Adequate	Y
28	Garder A, 2011 ^[28]	NCT00294723	Adequate	Adequate	Open Label	Adequate	Y
29	Heine RJ, 2005 ^[29]	NCT00082381	Adequate	Adequate	Open Label	Adequate	Y
30	Henry RR, 2012 ^[30]	NCT00744367	Adequate	Adequate	Adequate, DB	Adequate	Y
31	Hollander P, 2013 ^[31]	NCT00823992	Adequate	Adequate	Adequate, DB	Adequate	Y
32	Inagaki N, 2012 ^[32]	NCT00935532	Adequate	Unclear	Open Label	Adequate	N
33	Iwamoto K, 2009 ^[33]	NCT00612794	Adequate	Adequate	Adequate, DB	Unclear	Y
34	Ji LN, 2013 ^[34]	NCT00917267	Adequate	Unclear	Open Label	Adequate	Y
35	Kadowaki T, 2009 ^[35]	NCT00382239	Unclear	Unclear	Adequate, DB	Adequate	Y
36	Kadowaki T, 2011 ^[36]	NCT00577824	Adequate	Unclear	Adequate, DB	Adequate	Y
37	Kendall DM, 2005 ^[37]	NCT00035984	Unclear	Unclear	Adequate, DB	Adequate	Y
38	Kim D, 2007 ^[38]	NCT00103935	Adequate	Adequate	Adequate, DB	Adequate	Y
39	Li CJ, 2012 ^[39]	NR	Adequate	Adequate	Adequate, DB	Adequate	N
40	Liutkus J, 2010 ^[40]	NCT00603239	Adequate	Adequate	Adequate, DB	Adequate	Y
41	Marre M, 2009 ^[41]	NCT00318422	Unclear	Unclear	Adequate, DB	Adequate	Y
42	Mathieu C, 2014 ^[42]	NCT01388361	Adequate	Unclear	Open Label	Adequate	Y
43	Moretto TJ, 2008 ^[43]	NCT00381342	Adequate	Adequate	Adequate, DB	Adequate	Y
44	Nauck M, 2014 ^[44]	NCT00734474	Adequate	Adequate	Adequate, DB	Adequate	Y

45	Nauck MA, 2007 ^[45]	NCT00082407	Adequate	Adequate	Open Label	Adequate	Y
46	Nauck MA, 2009 ^[46]	NCT00423501	Adequate	Adequate	Adequate, DB	Adequate	Y
47	Nauck M, 2009 ^[47]	NCT00318461	Adequate	Adequate	Adequate, DB	Adequate	Y
48	Nauk M, 2013 ^[48]	NCT00755287	Adequate	Adequate	Open Label	Adequate	Y
49	NCT00620282, 2011 ^[49]	NCT00620282	Adequate	Unclear	Unclear, DB	Unclear	N
50	NCT00667732, 2013 ^[50]	NCT00667732	Adequate	Adequate	Adequate, DB	Adequate	N
51	NCT00701935, 2013 ^[51]	NCT00701935	unclear	unclear	Adequate, DB	unclear	Y
52	Pinget M, 2013 ^[52]	NCT00763815	Adequate	Adequate	Adequate, DB	Adequate	Y
53	Pratley R, 2011 ^[53]	NCT00700817	Adequate	Adequate	Open Label	Adequate	N
54	Pratley RE, 2013 ^[54]	NCT00909597	Adequate	Adequate	Adequate, DB	Adequate	Y
55	Pratley RE, 2014 ^[55]	NCT01128894	Adequate	Adequate	Open Label	Adequate	Y
56	Ratner R, 2010 ^[56]	NCT00460941	Adequate	Unclear	Adequate, DB	Adequate	Y
57	Ratner RE, 2010 ^[57]	NR	Adequate	Adequate	Adequate, DB	Adequate	Y
58	Raz I, 2012 ^[58]	NCT00744926	Adequate	Adequate	Adequate, DB	Adequate	Y
59	Riddle MC,2013 ^[59]	NCT00975286	Adequate	Adequate	Adequate, DB	Adequate	Y
60	Riddle MC, 2013 ^[60]	NCT00715624	Adequate	Adequate	Adequate, DB	Adequate	Y
61	Rosenstock J, 2013 ^[61]	NCT00717457	Adequate	Unclear	Open Label	Adequate	Y
62	Rosenstock J, 2014 ^[62]	NCT00713830	Adequate	Unclear	Unclear, DB	Adequate	Y
63	Rosenstock J, 2014 ^[63]	NCT00976391	Adequate	Unclear	Open Label	Adequate	Y
64	Rosenstock J, 2009 ^[64]	NCT00518115	Unclear	Unclear	Adequate, DB	Unclear	Y
65	Rosenstock J, 2013 ^[65]	NCT00707031	Adequate	Unclear	Open Label	Adequate	Y
66	Russell-Jones D, 2009 ^[66]	NCT00331851	Adequate	Adequate	Adequate, DB	Adequate	Y
67	Russell-Jones D,	NCT00676338	Adequate	Adequate	Adequate, DB	Adequate	Y

	$2012^{[67]}$						
68	Seino Y, 2008 ^[68]	NCT00154414	Adequate	Adequate	Adequate, DB	Adequate	Y
69	Seino Y, 2010 ^[69]	NCT00393718	Unclear	Unclear	Unclear	Unclear	Y
70	Seino Y, 2012 ^[70]	NCT00866658	Adequate	Adequate	Adequate, DB	Adequate	Y
71	Seino Y, 2014 ^[71]	NCT01098461	Adequate	Adequate	Adequate, DB	Adequate	N
72	Umpierrez G, 2014 ^[72]	NCT01126580	Adequate	Adequate	Adequate, DB	Adequate	Y
73	Umpierrez GE, 2011 ^[73]	NCT00630825	Adequate	Unclear	Adequate, DB	Adequate	Y
74	Wysham C, 2014 ^[74]	NCT01064687	Adequate	Adequate	Adequate, DB	Adequate	Y
75	Yang W, 2011 ^[75]	NCT00614120	Unclear	Unclear	Adequate, DB	Adequate	N
76	Yuan GH, 2012 ^[76]	NR	Adequate	Unclear	Adequate, DB	Adequate	Y
77	Zinman B, 2007 ^[77]	NCT00099320	Adequate	Adequate	Adequate, DB	Adequate	Y
78	Zinman B, 2009 ^[78]	NCT00333151	Adequate	Adequate	Adequate, DB	Adequate	Y

Note: DB: double blinding; TB: triple blinding; ITT, intention-to-treat analysis; NR: not reported

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